

Docket No.: 043888-0373



PATENT

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES**

In re Application of	:	Customer Number: 20277
Hajime MURAKAMI	:	Confirmation Number: 9619
Application No.: 10/533,951	:	Tech Center Art Unit: 1745
Filed: May 04, 2005	:	Examiner: CHU, Helen O.

For: A POSITIVE ELECTRODE CURRENT COLLECTOR FOR A MANGANESE DRY BATTERY AND A MANGANESE DRY BATTERY USING THE SAME

SUPPLEMENTAL APPEAL BRIEF

Mail Stop Appeal Brief
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This Supplemental Appeal Brief is submitted in response to the Notice of Non-Compliant Appeal Brief mailed September 5, 2007. This Supplemental Appeal Brief includes the Summary of Claimed Subject Matter section, in accordance with the instructions in the Notice explaining that the entire appeal brief does not need to be resubmitted.

Summary of Claimed Subject Matter

An embodiment of the present invention, per claim 1, is a positive electrode current collector (Ref. No. 2, Fig. 1) for a manganese dry battery comprising a carbon rod and paraffin wax containing a hydrocarbon compound having a molecular weight of 300 to 500 impregnated in the carbon rod (see page 3, lines 14-18 of the written description), wherein the amount of a hydrocarbon compound having

a molecular weight of not greater than 310 in the paraffin wax is not greater than 0.5 wt% (see page 3, lines 18 to 21 of the written description).

Another embodiment of the present invention, per claim 3, is a positive electrode current collector (Ref. No. 2, Fig. 1) for a manganese dry battery of the present invention comprising a carbon rod and paraffin wax containing a hydrocarbon compound having a molecular weight of 300 to 500 impregnated in the carbon rod (see page 3, lines 14-18 of the written description), wherein the amount of a hydrocarbon compound having a molecular weight of not greater than 310 in the paraffin wax is not greater than 0.5 wt% (see page 3, lines 22-24 of the written description). The carbon rod has a density of 1.50 to 1.75 g/cm³ (see page 3, line 25 to page 4, line 1 of the written description).

In other embodiments of the present invention, the amount of the hydrocarbon compound having a molecular weight of not greater than 310 in the paraffin is measured by gas chromatography (see page 3, lines 22 to 24 of the written description). In other embodiments of the present invention, a manganese dry battery comprising the aforesaid positive electrode current collector is provided (see page 4, lines 4 to 6 of the written description). In certain other embodiments of the present invention, the manganese dry battery comprises a sealing member having an aperture for fitting the positive electrode current collector therein, and polybutene is placed as a sealant in the fitting portion between the positive electrode current collector and the sealing member (see page 4, lines 7 to 12 of the written description).

The present invention addresses and solves problems attendant upon the design and manufacture of improved manganese dry batteries. The present invention provides a positive electrode current collector for a manganese dry battery including a carbon rod with a low density yet with good retention of the sealing property of the battery during high temperature storage. Another object of the present invention is to provide a manganese dry battery having improved high temperature storage

characteristics by using the above positive electrode current collector (see page 3, lines 5 to 13 of the written description).

To the extent necessary, a petition for an extension of time under 37 C.F.R. § 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 500417 and please credit any excess fees to such deposit account.

Respectfully submitted,

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